

**Amendment to the Abstract:**

The Abstract has been amended. A revised Abstract is attached.

**ABSTRACT**

~~The present invention provides an encoder and a decoder of digital picture data, and the encoder/decoder can realize high precision transform with less quantity of transferred data, when a parameter of the digital picture data is not an integer but has numbers of digits, to which the Affine transformation can be applicable. The encoder/decoder comprises the following elements:~~

~~—— (a) picture compression means for encoding an input picture and compressing the data,~~

~~—— (b) coordinates transform means for outputting coordinate data which is obtained by decoding the compressed data and transforming the decoded data into a coordinate system,~~

~~—— (c) transformation parameter producing means for producing transformation parameters from the coordinates data,~~

~~—— (d) predicted picture producing means for producing predicted picture from the input picture by the transformation parameter, and~~

~~(e) transmission means for transmitting the compressed picture and the coordinates data.~~  
A method for decoding a bitstream data obtained by encoding a target image comprises the steps of:

—— (a) extracting from the bitstream data, coordinates point data indicating frame coordinates points of the reference image, coordinates number data indicating a number of the frame coordinates points and a compressed image signal related to a target image to be decoded;

—— (b) selecting an image transformation parameter used for obtaining a predicted image, based on the extracted coordinates number data;

—— (c) obtaining the predicted image from the reference picture, based on the selected image transformation parameter and the extracted coordinate point data;

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(d) obtaining a decompressed differential image by decoding the compressed image signal; and

(e) reproducing a reproduced image by summing the predicted image and the decompressed differential image.